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What is claimed is:

- 1 1. A system for concurrently displaying respective images 2 representing real-time data and non-real-time data, comprising:
 - a source of signals representing real-time data;
 - a source of signals representing non-real-time data;
 - a display device for displaying images;
 - a processor, coupled to the real-time data source, the non-real-time data source and the display device, the processor:

executing a windowing operating system controlling the operation of an application program for receiving non-real-time data and conditioning the display device to display an image representing the non-real-time data; and

executing a real-time display process, independent of the execution of the operating system, for receiving the real-time data and conditioning the display device to display an image representing the real-time data concurrently with the display of the non-real-time data.

- 2. The system of claim 1, wherein:
- 2 the real-time data signal source is a network with a 3 specified latency limit; and
- the real-time display process receives the real-time data and displays the real-time data representative image within the specified latency limit.
- 1 3. The system of claim 1 wherein the real-time display 2 process operates as a single thread.

- 1 4. The system of claim 3 wherein the real-time display 2 process thread is assigned a priority higher than the
- 3 application program.

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1 5. The system of claim 3 wherein:

the windowing operating system provides a graphics display interface for conditioning the display device to display a specified image; and

the real-time display process thread provides instructions to the graphics display interface to display the real-time image.

6. The system of claim 1, wherein:

the application program may malfunction such that the non-real-time data representative image obscures the real-time data representative image;

the system further comprises a source of user input signals; and

the processor, in response to a user input signal, reveals the real-time data representative image.

- 7. The system of claim 6 wherein the user input signal source comprises a keyboard, and the user input signal comprises a key combination.
- 1 8. The system of claim 6 wherein the user input signal 2 source comprises a mouse, and the user input signal comprises a 3 mouse click.

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9. The system of claim 1, wherein:
the windowing operating system maintains information
relating to the availability of resources; and
the processor further executes a monitor process for
monitoring the resource information and for taking corrective
action if the resource information indicate that the
availability of a resource is below a predetermined level.
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10. The system of claim 9 wherein the resource information maintained by the windowing operating system maintains comprises information related to:

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memory resources;
system resources;
computer resources; and
process resources.
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- 11. The system of claim 9 wherein the corrective action taken by the processor comprises:
- modifying execution parameters of the application program;
 terminating the application program; and
 sending a notification to the user.
- 1 12. A method for concurrently displaying respective images 2 representing real-time data and non-real-time data, comprising 3 the steps of:
- 4 receiving non-real-time data;
- 5 receiving real-time data;
- 6 executing a windowing operating system for controlling the
- 8 time data, for conditioning a display device to display

operation of an application program responsive to the non-real-

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- 9 respective images representing the non-real-time data;
- 10 executing a real-time display process, independently of the
- 11 windowing operating system, for conditioning the display device
- 12 to display respective images representing the real-time data
- 13 concurrently with the display of the non-real-time data.
- 1 13. The method of claim 12 further comprising the step of executing the real-time display process as a single thread.
 - 14. The method of claim 13 further comprising the step of assigning the real-time display process thread a higher priority than the application program.
 - 15. The method of claim 13 wherein

the windowing operating system execution step comprises the step of executing a graphics display interface to receive instructions for generating images; and

the real-time display process execution step comprises the step of providing instructions to the graphics display interface to display the respective images representing the real-time data

- 1 16. The method of claim 12 further comprising the steps
- 2 of, if the application program malfunctions such that the non-
- 3 real-time data representative image obscure the real-time data
- 4 representative image:

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- 5 receiving user input data; and
- 6 revealing the real-time representative data in response to
- 7 the user input data.

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- 1 17. The method of claim 16 wherein the step of receiving 2 user input data comprises the step of receiving a key 3 combination from a keyboard.
- 1 18. The method of claim 16 wherein the step of receiving 2 user input data comprises the step of receiving a mouse click 3 from a mouse.
 - 19. The method of claim 12 wherein:

the step of executing the windowing operating system comprises the step of maintaining information relating to the availability of resources; and

the method further comprises the step of:

executing a monitor process for

monitoring the resource information; and taking corrective action if the resource information indicates that the availability of a resource is below a predetermined level.

- 1 20. The method of claim 19 wherein the step of monitoring 2 the resource information comprises the steps of:
- 3 monitoring memory resources;
- 4 monitoring system resources;
- 5 monitoring computer resources; and
- 6 monitoring process resources.
- 1 21. The method of claim 19 wherein the step of taking 2 correcting action comprises the steps of:
- 3 modifying execution parameters of the application program;

- 4 terminating the application program; and
- 5 sending a notification to the user.